AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) A cornea preservation medium comprising in sterile solution ingredients in final concentration:

potassium sulfate K_2SO_4 (5 mM)

L-aspartic acid (110 mM)

magnesium sulfate (1.2 mM)

calcium hydroxide (2.0 mM)

potassium phosphate monobasic KH_2PO_4 (20 mM)

N-2-hydroxyethylpiperazine-N'-2-ethanesulfonic acid (HEPES) (5 mM)

ethylenediaminetetraacetic acid (EDTA) (1 mM)

taurine (20 mM)

zinc sulfate (1 microM)

N-(tert-butyl) hydroxylamine HCL (200 microM)

dextran M.W. 60,00-90,000 (5.5% w/v)

N-acetyl-cysteine (0.5 mM)

gentamycin sulfate (0.02% w/v)

creatine phosphate (5 mM)

Lipid Concentrate (~~GIBCO/INVITROGEN #11905-031~~ Pluronic F-68, 90,000.00 mg/L; Ethyl Alcohol (200 Proof), 100.0 mL/L; Cholesterol, 220.00 mg/L; Tween 80, 2,200.00 mg/L; DL-alpha-Tocopherol acetate, 70.00 mg/L; Stearic acid, 10.00 mg/L; Myristic acid, 10.00mg/L; Oleic acid, 10.00 mg/L; Linoleic acid, 10.00 mg/L; Palmitic acid, 10.00 mg/L; Palmitoleic acid, 10.00 mg/L; Arachidonic acid, 2.00 mg/L; Linolenic Acid, 10.00 mg/L) (1% v/v)

at pH adjusted to 7.45 with 1 M KOH, and having an osmolarity of 310 to 320 mOsmoles.

2. (Original) A kit for preserving tissue comprising:

a premeasured amount of the preservation medium of claim 1.

3. (Original) A kit for preserving tissue comprising:

a premeasured amount of the preservation medium of claim 1, and

recorded instructions copackaged or associated with the premeasured amount describing use of the medium to preserve a tissue.

4. (Original) A kit for making the preservation medium of claim 1, comprising:

premeasured amounts of a plurality of the ingredients; and

recorded instructions copackaged or associated with the premeasured amounts describing how to combine the ingredients to make the medium.

5. (Original) A method of making the preservation medium of claim 1, comprising the step of:

combining the recited ingredients to make the medium.

6. (Original) A method of using the preservation medium of claim 1, comprising the step of:

incubating a tissue in the medium.

7. (Original) A method of using the preservation medium of claim 1, comprising the step of:

incubating a tissue in the medium; and

verifying post-incubation survival utility of the tissue.

8. (Original) A method of using the preservation medium of claim 1, comprising the step of:

incubating a tissue in the medium at 4 degrees C.

9. (Original) A method of using the preservation medium of claim 1, comprising the step of:

incubating a tissue in the medium at 4 degrees C; and

verifying post-incubation survival utility of the tissue.

10. (Original) A method of using the preservation medium of claim 1, comprising the step of:

incubating a tissue in the medium at 4 degrees C for between 7 and 21 days.

11. (Original) A method of using the preservation medium of claim 1, comprising the step of:

incubating a tissue in the medium at 4 degrees C for between 7 and 21 days; and

verifying post-incubation survival utility of the tissue.

12. (Original) A method of using the preservation medium of claim 1, comprising the step of: incubating a cornea tissue in the medium at 4 degrees C for between 7 and 21 days.

13. (Original) A method of using the preservation medium of claim 1, comprising the step of: incubating a cornea tissue in the medium at 4 degrees C for between 7 and 21 days; and verifying post-incubation survival utility of the tissue.